PROJECT DESCRIPTION

i. CENERAL

This project involves the installation of a new traffic control signal at the intersection of Western Parkway and Waldorf Marketplace Entrance in Charles County, Maryland. Western Parkway is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA four (4) phase, full-traffic-actuated mode. There will be an exclusive/permissive left turn phase for the southbound movement of Western Parkway. The Western Parkway through movements will operate concurrently. The Waldorf Marketplace Entrance movements will operate alone.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, and (2) four-channel rack mounted time delay output loop detector amplifiers housed in a base mounted cabinet are to be installed at this location.

EQUIPMENT LIST

A Material to be furnished by SHA. None.

B1. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval

| prior to inst Quantity | Units | Specification . Section | Description |
|---------------------------|-------|----------------------------|--|
| 1 | EA . | 818 | 27 ft. steelmast arm pole with a 50 ft. mast arm. |
| . 1 | EA | 818 | 27 ft. steel twin mast arm pole with 50 ft. and 70 ft. mast arms. |
| . 1 | EA | 816 | Standard S.H.A. traffic signal controller, base mounted cabinet, two (2) four-channel loop detector amplifiers, and telemetry equipment [Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650]. |
| 5 | £A | 814 | 12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with most arm mounting hardware and tunnel visors. |
| . 1 | EΑ | 814 | 12 in., one-way, five section (R,Y,YA,G,GA) adjustable black faced traffic signalhead with mast arm mounting hardware and tunnel visors. |
| 1 | EA | 814 | 12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors. |
| 1 | EΑ | 813 | 36 in. x 42 in. R 10-12 sign with mast arm mounting hardware. |
| 4 | EA | 813 | 48 in. x 48 in. W 3-3 "NEW" sign for ground mounting. |
| . 1 | EA | 813 | 30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware. |
| . 1 | EA | 813 | 30 in. x 36 in. R 3-5(R) sign with mast arm mounting hardware. |
| 1 | EA | 813 | 16 in. x Var. D-3(1) sign with mast arm mounting hardware. |
| 2 | EA | 813 | 16 in. x Var. D-3(1) (Dual Faced) sign with mast arm mounting hardware. |
| 4 | EA | | Non- invasive probe (set of 3) with 750 ft. lead-in capie. |
| 2 | EA | 806 | 20 ft. luminaire arm. |
| 2 | EA | 806 | 250 W H.P.S. lamp and luminaire. |
| | EA | • • • | Telemetry package for existing base mounted cabinet/controller. |

CONTACT LIST

The contact persons for District •5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
410-841-1003

Mr. Ernest Hodshon

Mr. Chuck E. George Assistant District Engineer – Maintenance 410-841-5461

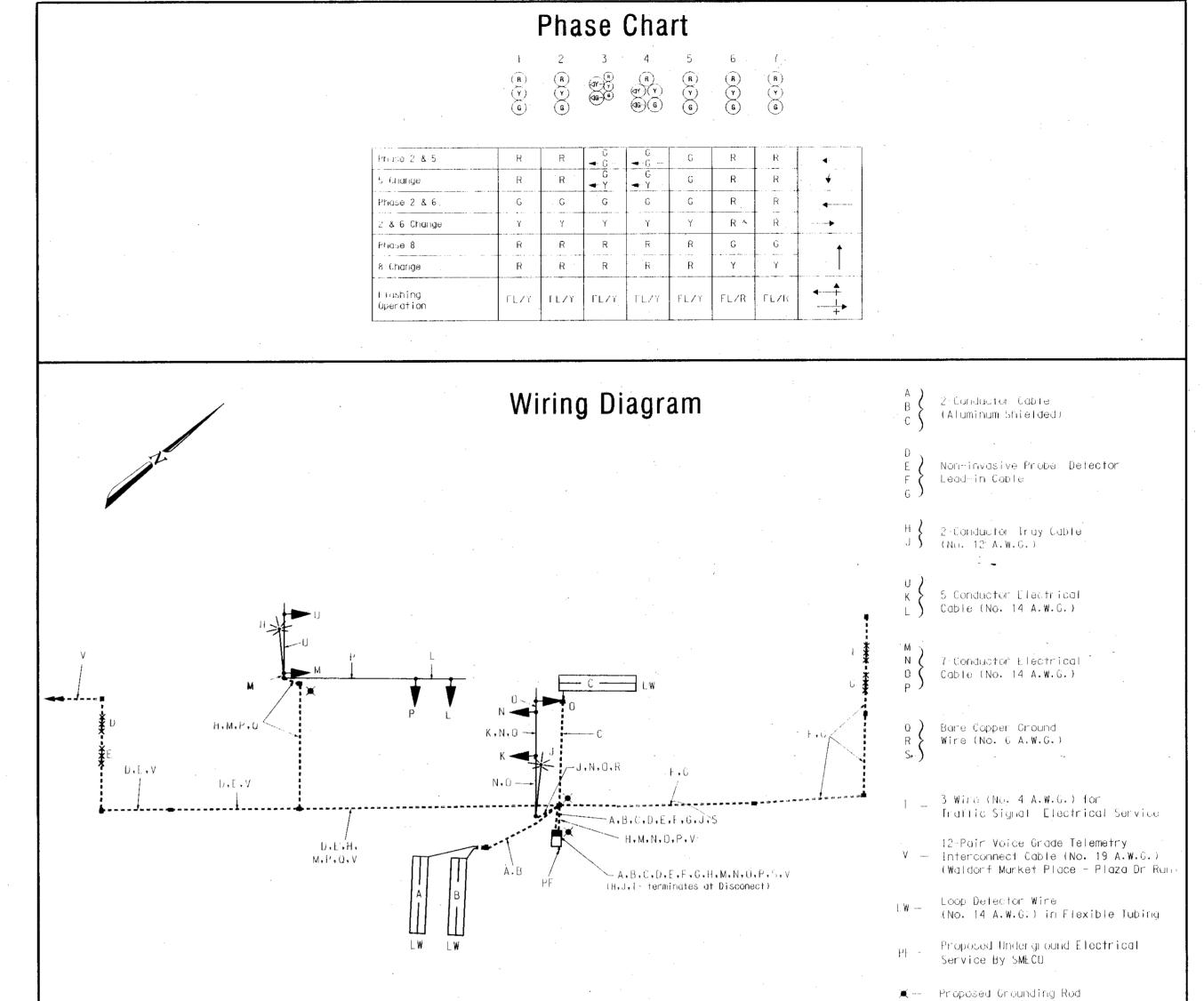
Mr. Ernest Hodshon
Assistant District Engineer - Utility
410-841-5462

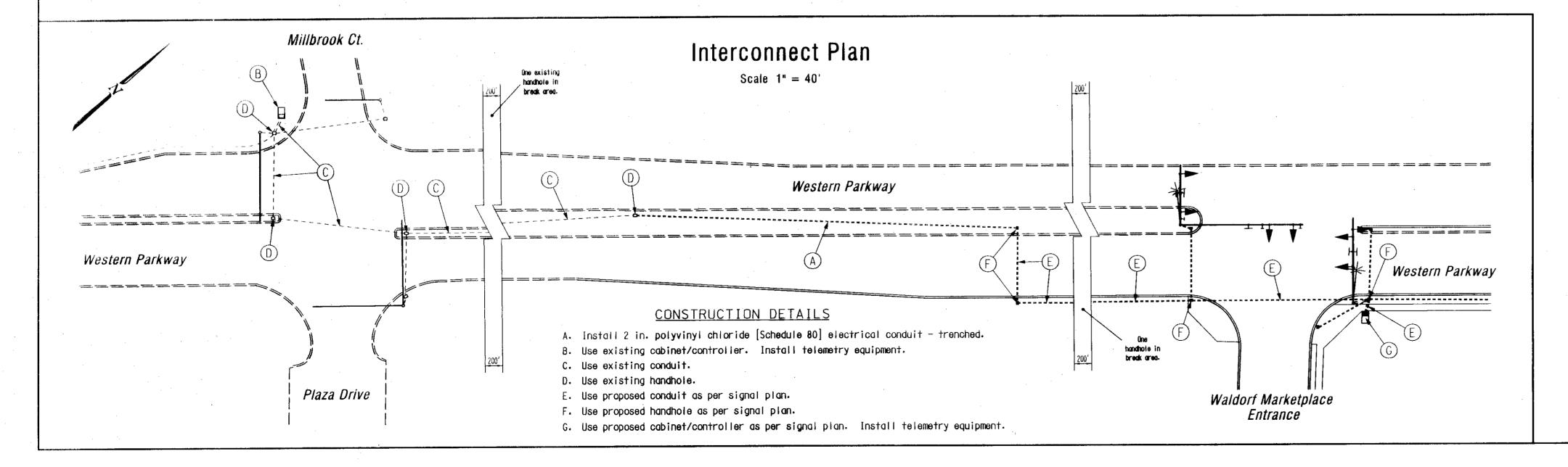
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

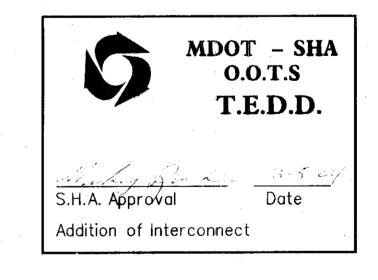
The Power Company Representative is: SMECO Mr. Chuck Stone 4414 Crain Highway White Plains, Maryland 20695 301-705-8686

| B2. Equipment to b | e furnished and/o | r installed by | the Contracto | r. | |
|--------------------|----------------------|----------------|---------------|------------------|-----------------|
| All equipment in | this list shall have | catalog cuts | submitted for | approval prior t | o installation. |

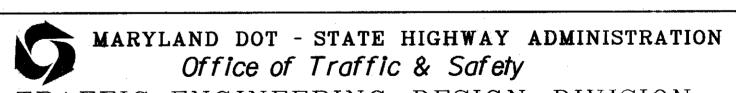
| Quantity | Units | Specification Section | Description |
|----------|-------|--------------------------|--|
| Lump Sum | LS | 108 | Mobilization. |
| Lump Sum | LS | 104 | Maintenance of traffic (to include temporary police control). |
| 3 | CY | 205 | Test pit excavation. |
| · 11 | EA | 811 | Handhole. |
| 1275 | LF | 815 | Sawcut for signalloop detector. |
| 360 | LF | 810 | Loop detector wire (No. 14 A.W.G.) encased in flexible tubing. |
| 1785 | LF | 810 | 2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.). |
| 325 | LF | 810 | 2-conductor electrical tray cable (No. 12 A.W.G.). |
| 90 | LF | 810 | 5-conductor electrical cable (No. 14 A.W.G.). |
| 700 | LF | 810 | 7-conductor electrical cable (No. 14 A.W.G.). |
| 25 | LF | 810 | 3-wire (No. 4 A.W.G.) electrical cable. |
| 1200 | LF | 810 | 12-Pair voice grade telemetry [jelly filled] interconnect cable (No. 19 A.W.G.). |
| 250 | LF | 804 | Bare copper stranded ground wire (No. 6 A.W.G.). |
| 20 | LF | 805 | 1 in. liquid tight flexible non-metallic conduit for loop detector sleeve. |
| 250 | LF | 805 | 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched. |
| 135 | LF | 805 | 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored. |
| 670 | ĹF | 805 | 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched. |
| 200 | LF | 805 | 4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway. |
| 15 | LF | 805 | 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched. |
| 8.5 | CY | 801 | Concrete foundation for traffic signal equipment. |
| 3 | EA | 804 | Ground rod -⅓ain. diameter x 10 ft. length. |
| .1 | EA | 807 | Control and distribution equipment (120/240 V, one phase, three wire system) for a type B-13 underground electrical service. |
| 200 | LF | 556 | 12 in. wide HAPPTPM - white for crosswalk. |
| 90 | LF | 556 | 24 in. wide HAPPTPM - white for stop line. |
| 133 | LF | 812 | 4 in. x 6 in. wood sign support. |
| Lump Sum | LS | | As-built for Charles County Eon CADD]. |











TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)

NP - Non Invasive Probe Detector

Western Parkway at Waldorf Marketplace Entrance

| | DRAWN BY: | Frank Hoeckel | F.A.P. NO. | N/A | TS NO. | | ç |
|-----|------------|---------------|------------|----------------|--------------|-----------|-----|
| | CHECKED BY | : BT 6/03 | S.H.A. NO. | BW996M82 | 4226 | SHEET NO. | 1 |
| nc. | SCALE: | N/A | COUNTY: | Charles County | T.I.M.S. NO. | | 100 |
| / | DAIL: . | May 6, 2003 | LOG MILL. | | <u>F696</u> | <u> </u> | 1 |
| | <u></u> | | | | | | |